“CONNECTING THE FUTURE”

What’s in store for the future from ATEN??

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WHAT IS OUR DIRECTION?

Matrix Solutions

Control Solutions

Transmission

Signal Conversion

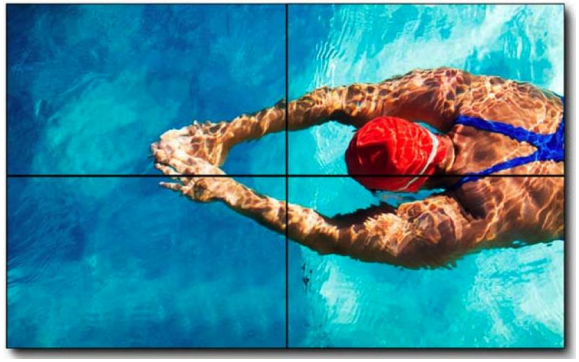
Modular Matrix

Flexibly integrate with different video input/output interfaces and encodes various video formats to provide seamless switching.

Matrix

Matrix switches route and amplify A/V signals from multiple sources to multiple destinations.

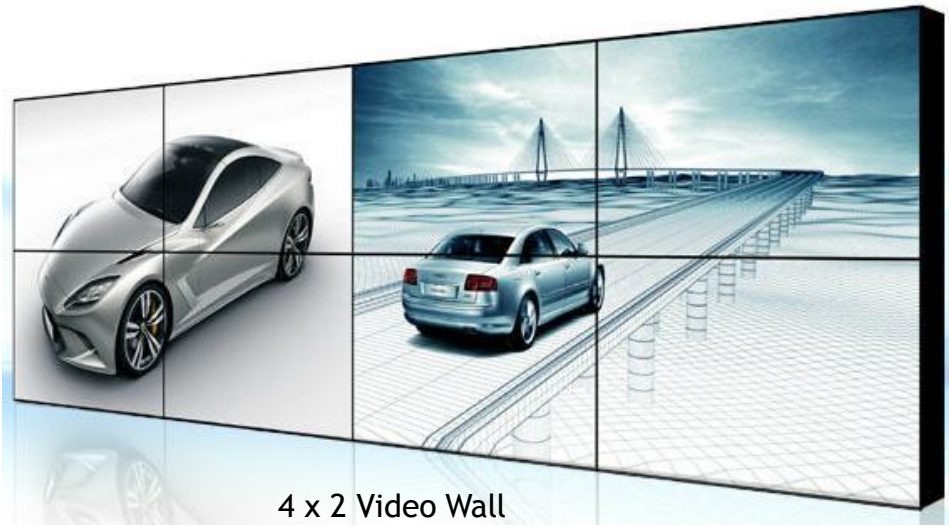
ATEN Video Wall Solution



2 x 2 Video Wall

VM3404H : HDMI HDBaseT Matrix (with VE805R)
VM5404H : HDMI Matrix Switch with Scaler
VM6404H : HDMI Matrix Switch with 4K Scaler
VM5404D : DVI Matrix Switch with Scaler

VM5808H : 8x8 HDMI Matrix Switch with Scaler
VM5808D : 8x8 DVI Matrix Switch with Scaler



4 x 2 Video Wall

ATEN Video Wall Solution

VM3909H : HDMI HDBaseT Matrix (with VE805R)

3 x 3 Video Wall

4 x 4 Video Wall

VM1600 : 16x16 Modular Matrix Switch

ATEN Video Wall Solution

VM1600 (x1)

16x16 Modular Digital Matrix Switch

VM7604 (x1)

4-Port DVI Input Board

VM8804 (x4)

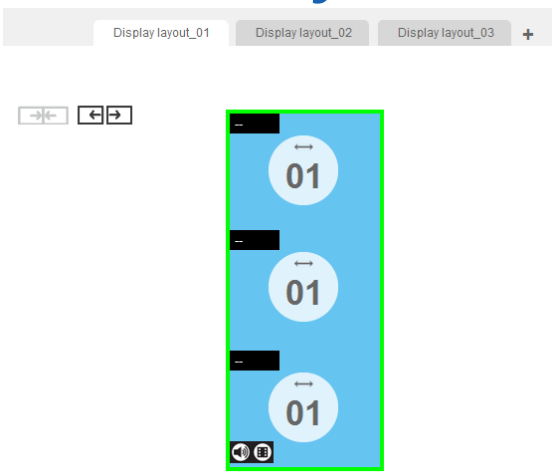
4-Port HDMI Output Board

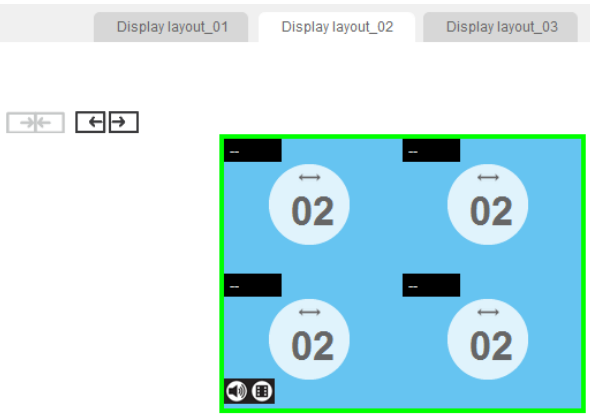
1 x 3 Video Wall

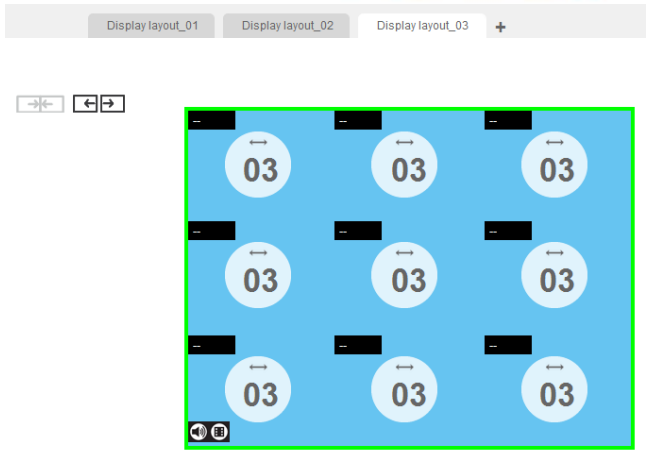
2 x 2 Video Wall

3 x 3 Video Wall

The benefits: VM1600 Web GUI



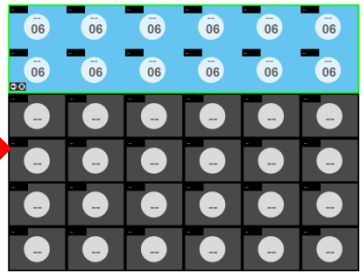


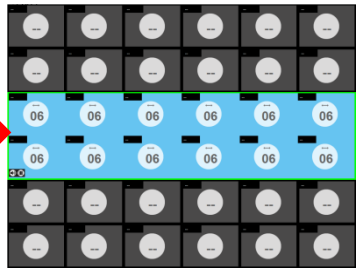


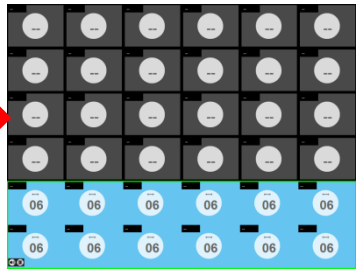
Simple and clear Display layout to make video wall at three different locations…

Large Scale Video Wall

6 x 6 Video Wall







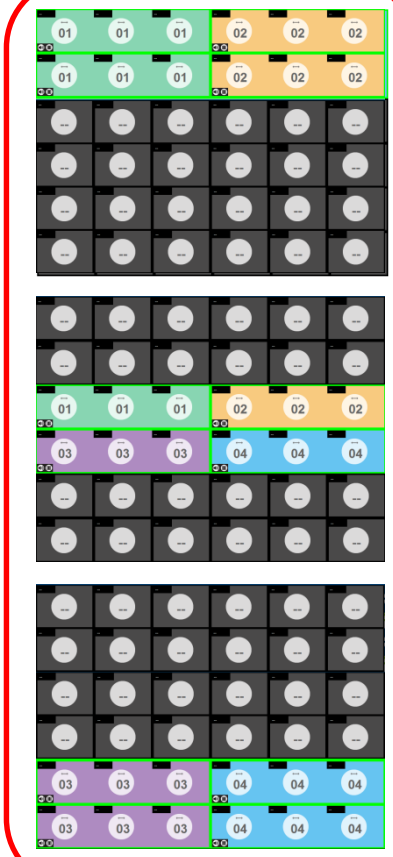
12 displays

12 displays

12 displays

Large Scale Video Wall

6 x 6 Video Wall



12 displays

12 displays

12 displays

More benefits: Seamless Switch

Exceptional Switching Speed – Zero-Delay content delivery !

Modular Matrix Series

Model	Description	Sample Available Date
VM1600	16x16 Modular Matrix Switch (Chassis)	Sep, 2014
VM8604/VM7604	4-Port DVI Output/Input Board	Sep, 2014
VM8804/VM7804	4-Port HDMI Output/Input Board	Sep, 2014
VM1600 (R1)	16x16 Digital Modular Matrix with TV wall	Oct, 2014
VM7104	4-Port VGA Input Board	Q2, 2015
VM8514/VM7514	4-Port HDBaseT Output/Input Board	Q3, 2015

Matrix Series

VM3 : HDBaseT Lite
VM5 : 1080p Seamless Switch
VM6 : 4K Seamless Switch

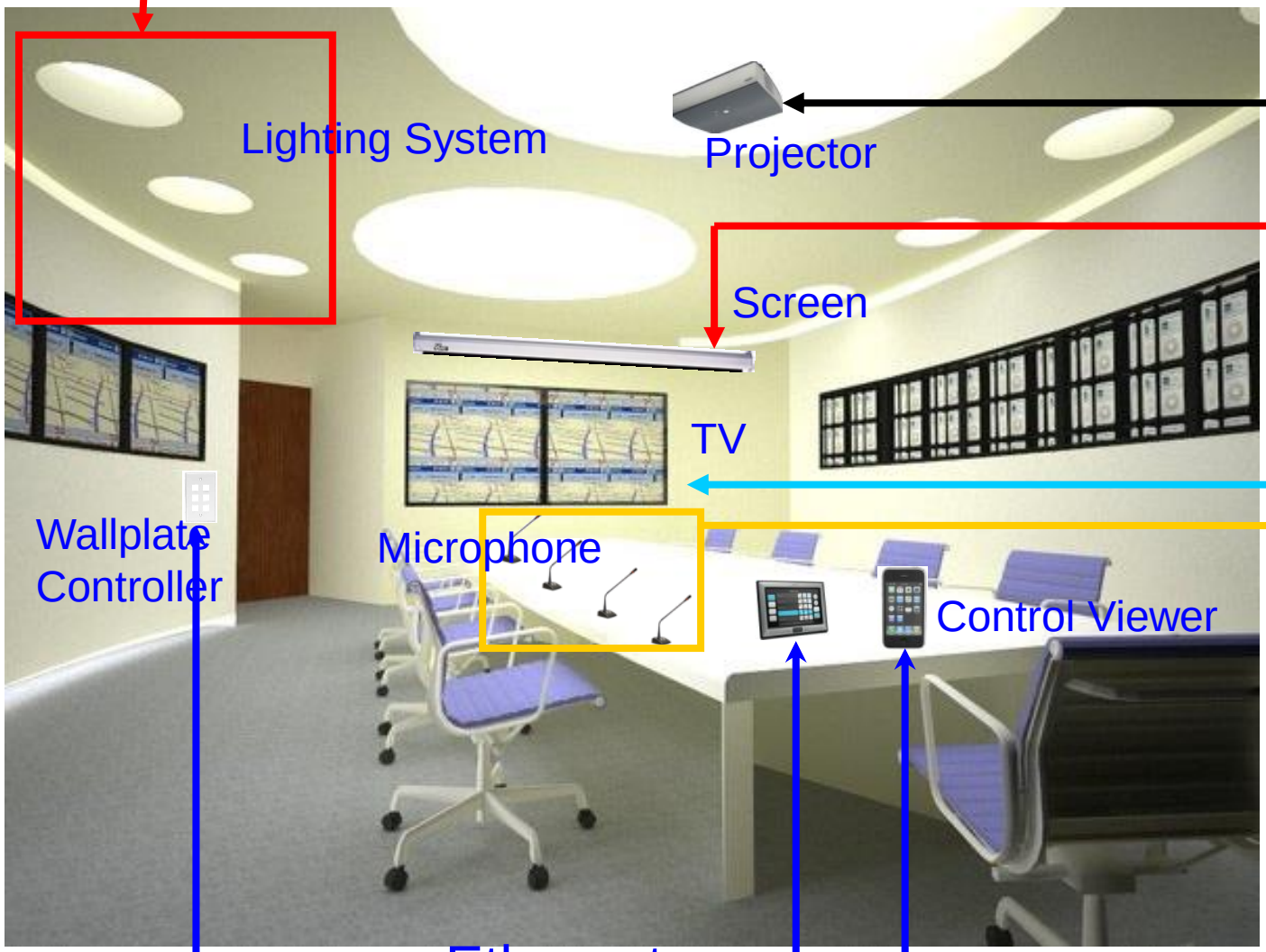
Support Video Wall Matrix Series

Model	Description	Sample Available Date
VM5404H	4x4 HDMI Matrix with scaler	Sep, 2014
VM5808H (R1)	8x8 HDMI Matrix with Scaler	Sep, 2014
VM5404D	4x4 DVI Matrix with scaler	Q2, 2015
VM5808D	8x8 DVI Matrix with scaler	Q2, 2015

Cost effective Matrix Series

Model	Description	Sample Available Date
VM0202H	2x2 HDMI Matrix Switch	Q2, 2015
VM0404HA	4x4 HDMI Matrix Switch (4Kx2K@30)	Q2, 2015

Control Solutions



Control Box

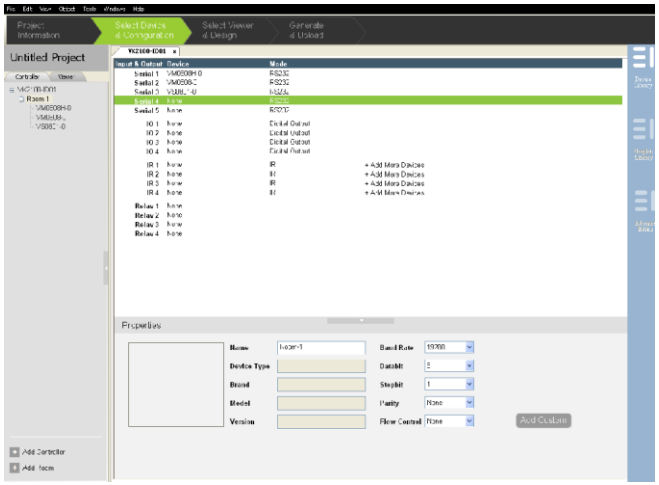
Automation – To control a variety of devices in single rooms or multiple small rooms and is capable of supporting devices with a variety of communication formats.

Extension Box

Allow users to manage devices remotely from a Controller over an Ethernet network.

Control Software

Control Software is designed to make it easier to integrate, program, organize and support all of your system programming needs utilizing the architecture.



Control Solution for Small Scale Application

End User

App UI

iOS Viewer

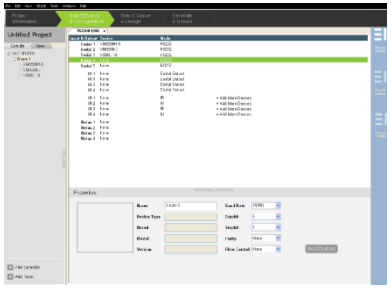
STD

Ethernet

Configurator S/W

VK6000

STD



Program

Controller Box

VK2100

6x4x4x4

RS232 x 6:
Conference System, CAM, video Matrix, Projector, Audio mixer

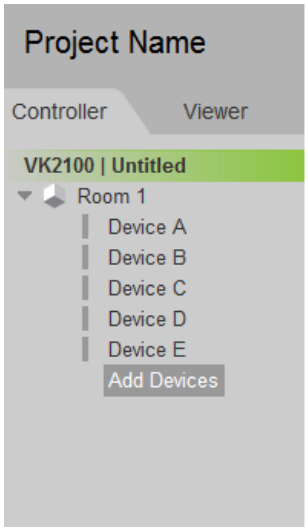
IR x 4:
BD, AVR

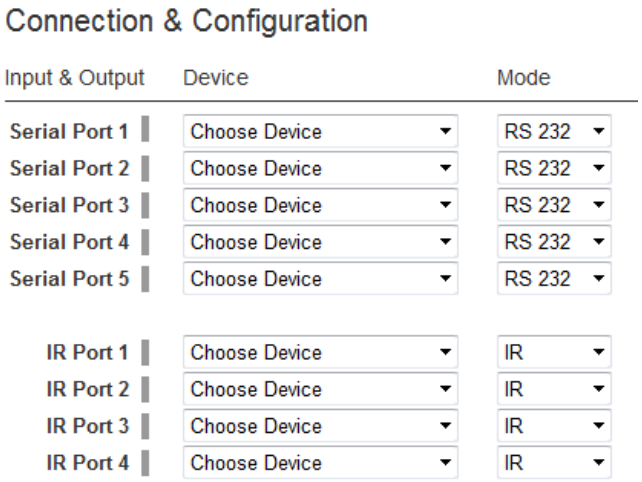
Relay x 4:
Curtain, lighting control

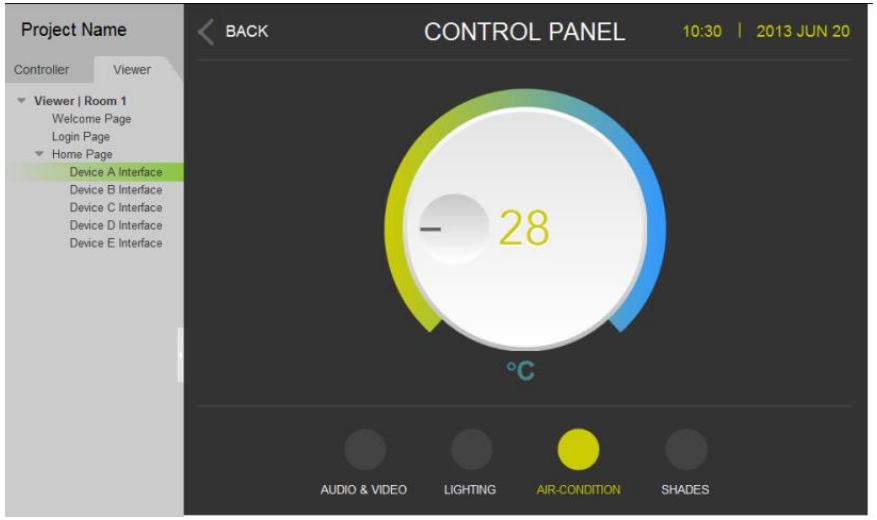
Digital I/O x 4:
power sensor, table button input

via ATEN's Configurator

Select Device & Configuration → Select Viewer & Design → Generate & Upload







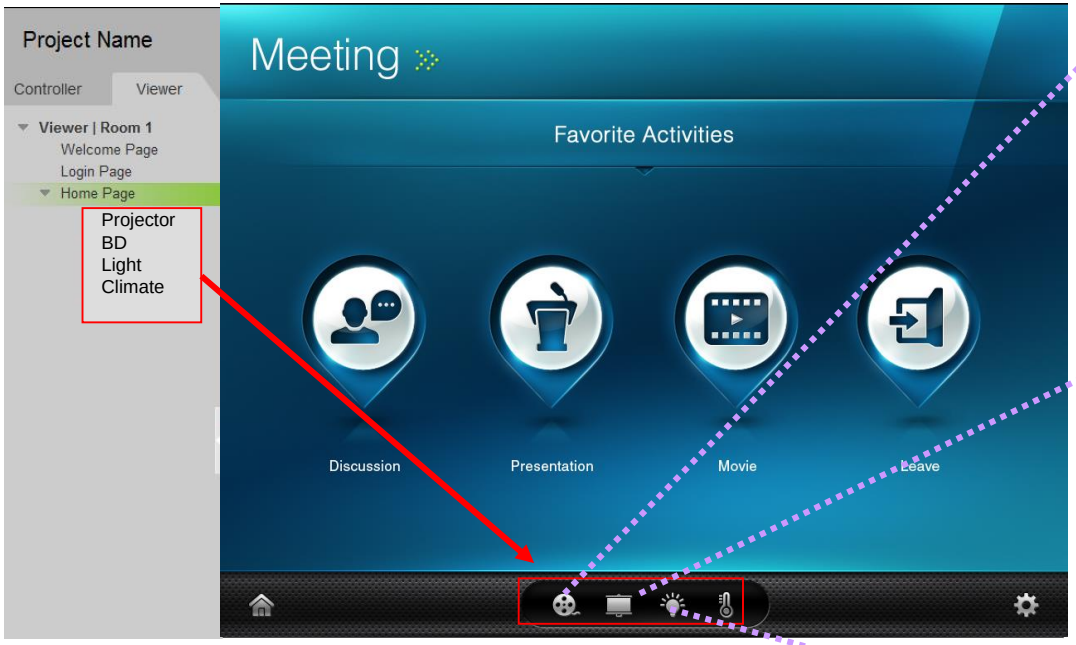
Select Device and Port Setting

Edit GUI and Button Action

Simple

Controller Box

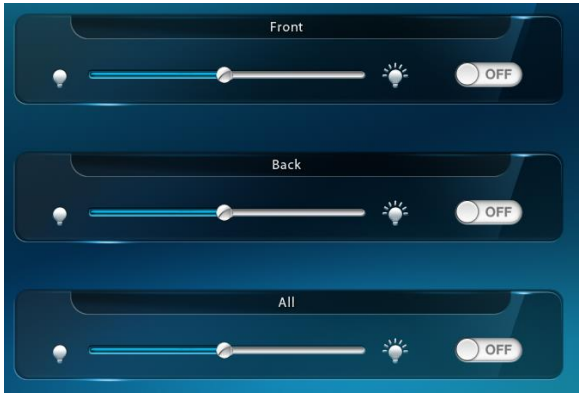
Adaptive & Configurable Control APP



(Projector)

(BD)

(Light)



Template UI will be generated by selective device respectively .

Multi Room, Multi viewer

Support different Viewer
In a control box

Support a SUPER Viewer for
administrator to manage

Control Solution for Large Scale Application

End User

App UI

iOS Viewer

STD

Ethernet

LAN
Control

Extension Box

VK224

4 x RS232

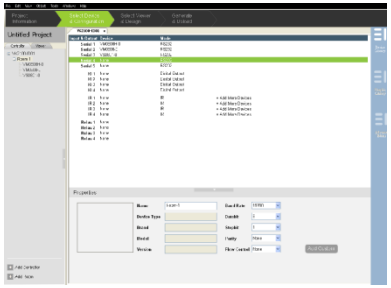
VK234

4 x Relay

Configurator S/W

VK6000

STD



Program

Controller Box

VK2100

6x4x4x4

RS232 x 6

IR x 4

Relay x 4

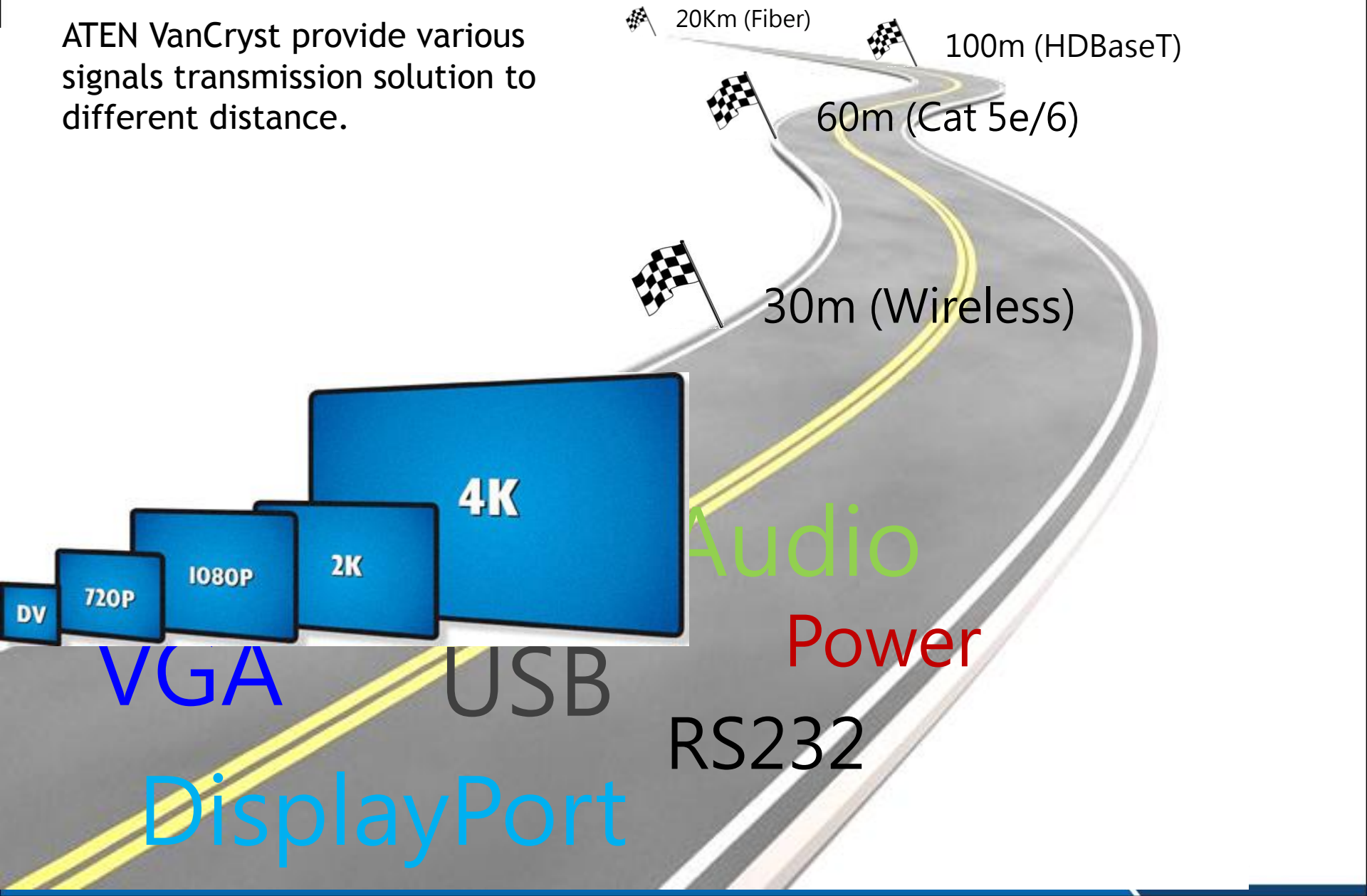
Digital I/O x 4

Control System Series

Model	Description	Sample Available Date
VK2100	Control system (6x4x4x4)	Q1, 2015
VK6000	Configurator	Q1, 2015
VK6000	iOS viewer	Q1, 2015
VK6000	IR/RS232 database Generator	Q1, 2015

Transmission Solution

ATEN VanCryst provide various signals transmission solution to different distance.



Optical Extender

Optical Extender overcomes the length restriction of standard HDMI cables by using optical fiber to send high definition audio and video signals over large distances.

HDBaseT Extender

HDBaseT™ combines uncompressed Full HD video, audio, 100Mb Ethernet connectivity and control signals through a single Cat 5e/6 cable.

HDMI Active Optical Cables (AOC)

- All in one type AOC:

AOC+™

VE872

15m HDMI Active Optical Cable

VE873

30m HDMI Active Optical Cable

Max. up to ~300M

Note: BTO for the special length like VE874(50m), VE875(100m) , etc…

HDBaseT™ – Bringing HD 4K to Homes

HDBaseT@4K→ up to 100m!

HDBaseT Lite@4K→ up to 60m!

HDBaseT Transmitter

Over Single Cat5e/6 Cable

HDBaseT Receiver

ULTRA HD Enabled By HDBT™

2014 HDBaseT Extender Series

- HDMI HDBaseT Extender :

VE812

HDMI over Single Cat5 Extender

VE814

HDMI over Single Cat5 Extender with Dual Display

- HDMI HDBaseT Media Distribution Solution:

VS1814T / VS1818T

4/8-Port HDMI over Single Cat5 Splitter

VE812R

HDMI over Single Cat5 Receiver

2015 HDBaseT Lite Extender Series

- Advanced series :

VE802

HDMI HDBaseT Lite Extender with PoH

VE805R

HDMI HDBaseT Lite Receiver with Scaler

- Standard series :

VE601

DVI HDBaseT Lite Extender

VE801

HDMI HDBaseT Lite Extender

VE901

DP HDBaseT Lite Extender

Converters

- HDMI Converters:

VC810

HDMI to VGA converter

VC981

Mini DisplayPort to 4Kx2K HDMI Converter

- SDI Converters:

VC840

HDMI to SD/HD/3G-SDI Converter with loopout

VC480

SD/HD/3G-SDI to HDMI Converter with loopout

reference

VC412

3G/HD/SD-SDI to VGA Converter with Scaler

4K HDMI Switch / Splitter

- HDMI Switch:

VS481B

4-Port HDMI Switch with 4Kx2K

- HDMI Splitters:

reference

VS92H / 94H / 98H

2/4/8-Port HDMI Splitter with 4Kx2K

SOME EXTRAS!!!!!

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CM1164

- Description: 4-port USB DVI-D KVMP Control Center
- Specification
  - 4-port DVI-D KVMP switch with simultaneous display up to 4 video sources on single screen
  - Three major viewing mode: Quad, PiP/PbP and fullscreen
  - OSD, hardware cursor, channel editor support
  - Daisy-chain control (DCC, Keyboard + Mouse)
  - Security control
  - Support 2.1 channel audio and 2 USB 2.0 peripheral ports
  - Video DynaSync™
  - Ideal for traffic, astronomy, weather and military control systems

Single Link DVI-D Cable

KVM Cable

DCC Cable

MEDIA CONTROL ROOM

CE602-Rx

VE814-Rx

40 Mtrs

100 Mtrs

MEDIA ROOM PROJECT

CE602-Tx

VE814-Tx

CM1164

CM1164

150 Mtrs

Standard / Wireless USB Keyboard & Mouse

HDMI

HDMI

1 2 3 4

MEDIA SERVERS

5 6

MEDIA SERVERS

DVI

MEDIA PROCESSING ROOM

CHURCH CONTROL ROOM

CM1164

DVI-HDMI

Local Admin

CHURCH LOBBY

VS1808T

CHURCH Columns

VS182

VE800R

VS182

VE800R

VE800R

VE800R

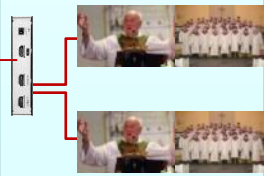
VS182

VE800R

VE800R

VE800R

VE800R



CHURCH MAIN STAGE

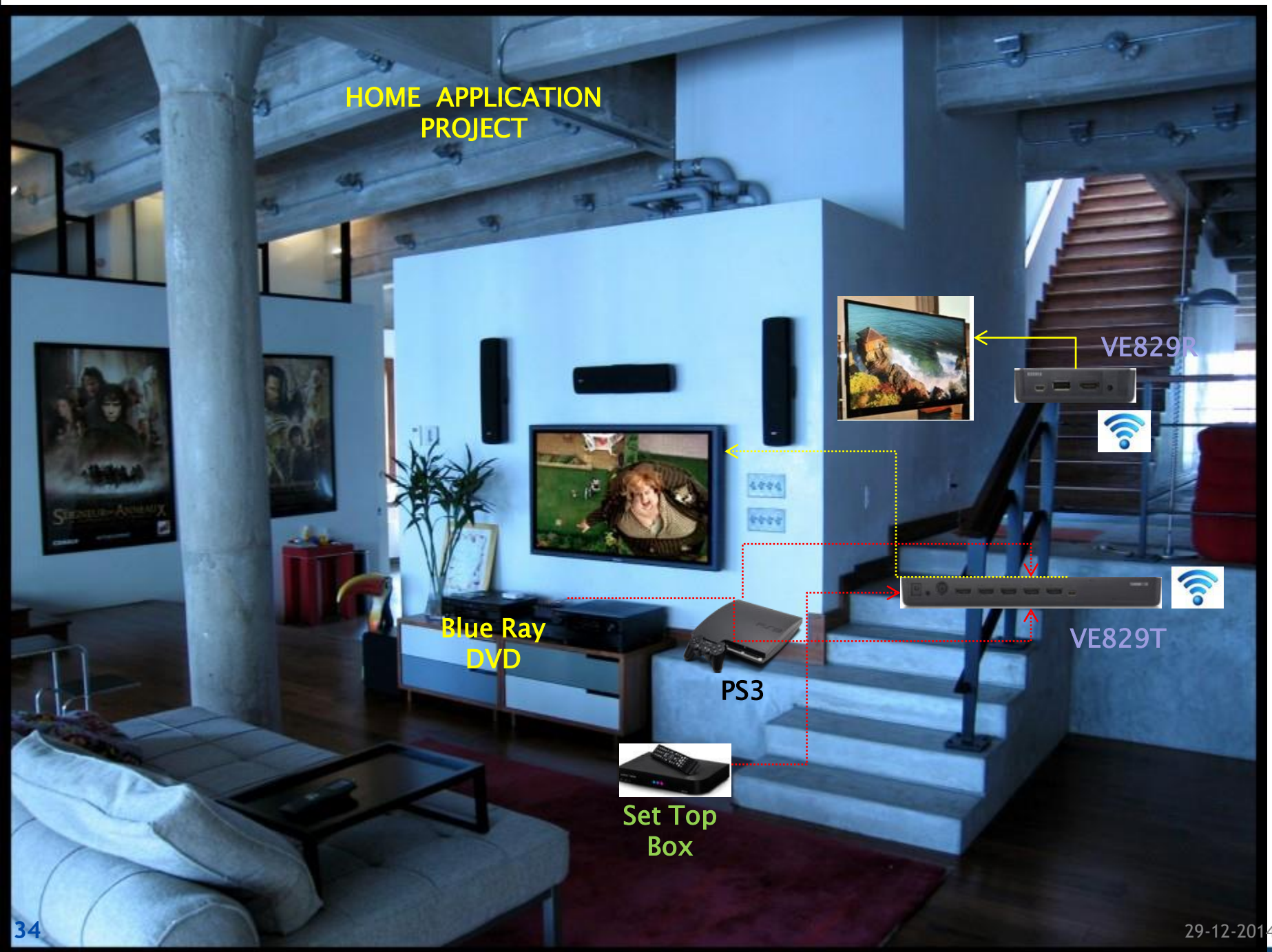
CHURCH PROJECT

VE829

- Product Description: 5x2 HDMI Wireless Extender
- Specification:
  - Wireless fully uncompressed HD video up to 30m* for 2 HDTVs.
  - Build in 5x2 Matrix: Allows to switch and independently select any of 5 devices between 2HDTVs
  - HDMI Inputs / Outputs :
    - Transmitter: 4 x HDMI input, 1x Component input, 1x Mini USB (HID) , 1x HDMI output (local port)
    - Receiver: 1x HDMI output, 1x USB (HID)
  - Video Resolutions: 480p, 720p, 1080i and 1080p (24 / 30 / 60fps), 480i for component inputs, and 5.1channel digital audio
  - USB HID port on transmitter and Receiver enable a wireless keyboard connectivity to control the attached computer/laptop.
  - HDCP Compliant

*Distances, quality and signal may vary depending on environment; solid objects such as steel, concrete and brick may view shorter distances or complete loss of signal.

** EMC: CE only


HOME APPLICATION
PROJECT
VE829R
Blue Ray
DVD
PS3
VE829T
Set Top
Box

VE882 / VE892

PRO

- Product Description：HDMI Optical Extender (600m/20Km)
- Specification：
  - Extends the transmission range of HDMI, IR and RS-232 signals using one fiber optic cable*
  - Very long distance transmission – up to 600m for VE882, up to 20km for VE892
  - Uses one fiber optic cable to connect the local and remote units
  - HDMI (3D, Deep Color), HDCP compatible – signaling rates up to 3.125 Gbits
  - Supports bi-directional IR signal transmission, one way at a time
  - Features RS-232 serial port for connecting peripherals such as touch screens, barcode scanners, etc.
  - Superior video quality – up to 1080p@60Hz
  - Supports wide screen formats
  - Built-in 8KV/15KV ESD protection
  - Rack-mountable
  - Hot-pluggable

Surveillance Camera

Mixer

VE892T

HIGHWAY 1

Surveillance Camera

Mixer

VE892T

HIGHWAY 2

Surveillance Camera

Mixer

VE892T

HIGHWAY 3

Optical Fiber

TRAFFIC SUREVILLANCE ROOM

Video Wall

VM0808H

VE892R

VE892TR

VE892R

Optical Fiber

HIGHWAY SURVEILLANCE PROJECT

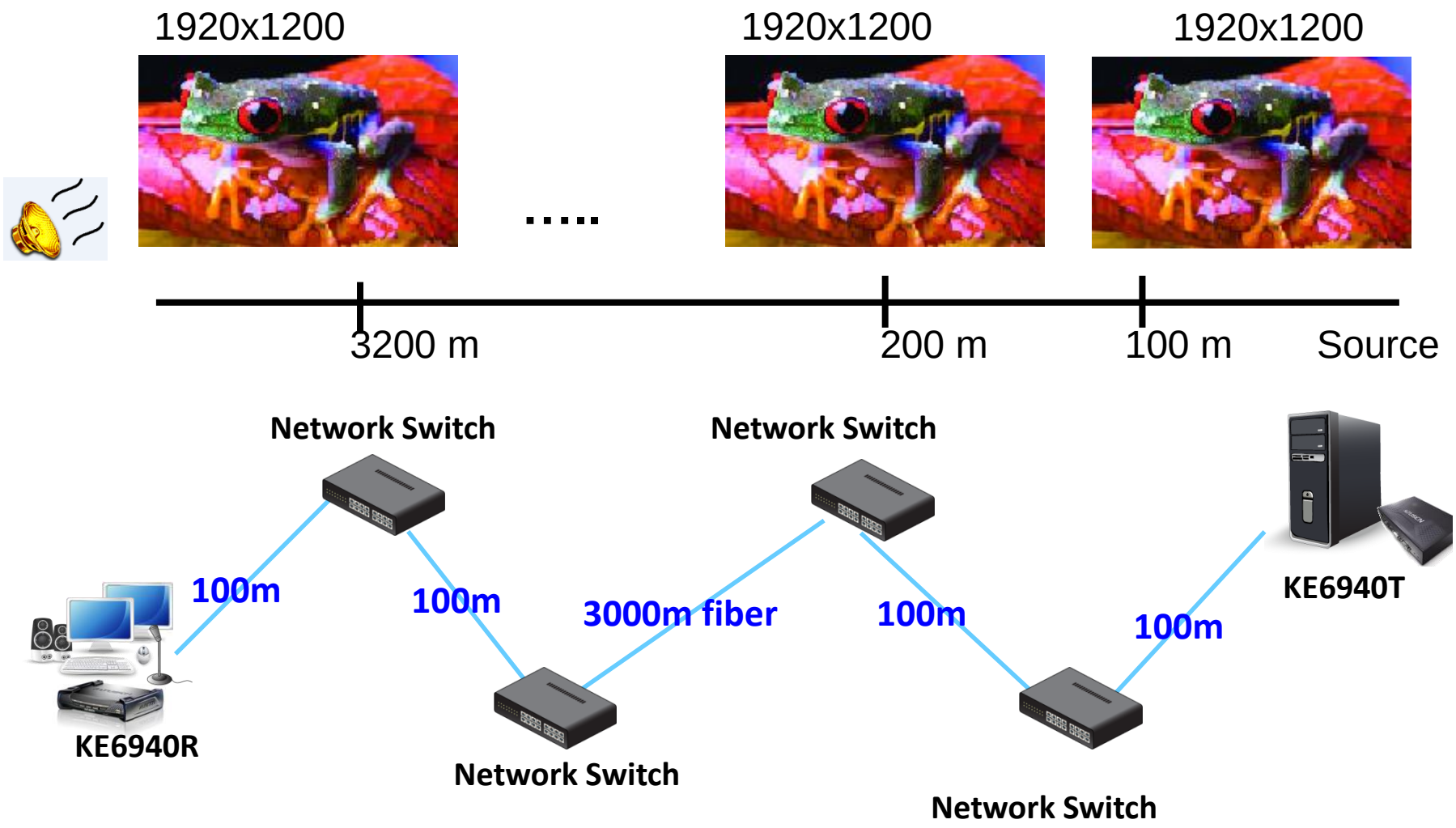
KE6900/KE6940 & Matrix Manager

- Description: DVI KVM over IP Extender
  - KE6900 : Single Display
  - KE6940 : Dual Display
- Key features at a glance:
  - DVI-I input for both analog and digital video resolution up to 1920 x 1200 @60Hz
  - Flawless & lossless video compression quality
  - Support Extender mode (1 x 1) and Matrix mode (m x n)
  - Support video mode for bandwidth optimization
    graphic mode for image quality optimization
  - Local console on transmitter
  - Secured data transmission (AES-128 bit encryption)
  - Devices & users management, authentication, authorization and configuration via Matrix Manager

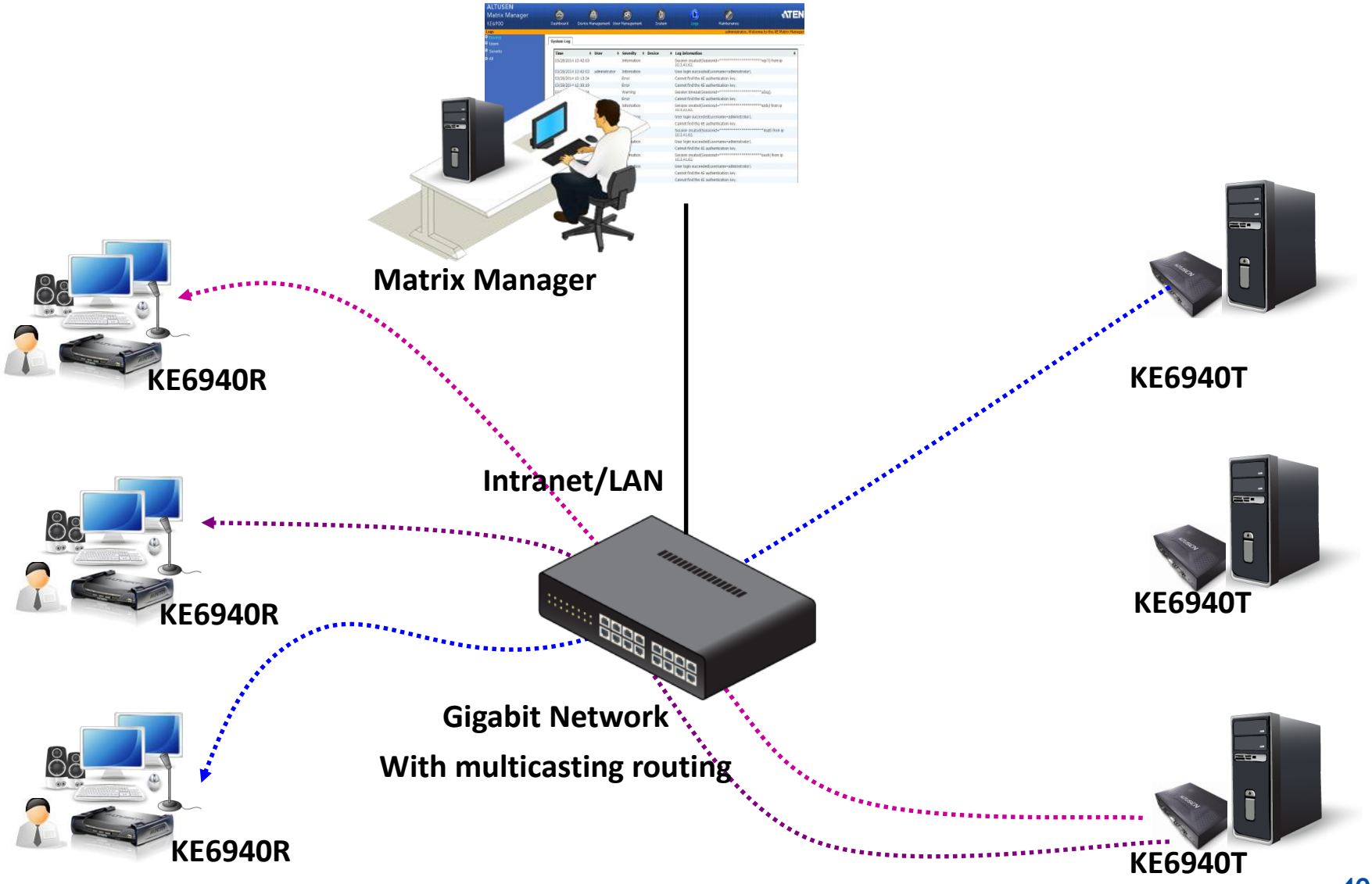
Selling Points

- No distance limitation -> IP based Extenders
- Flexible configurations -> One-to-One, One-to-Many, Many-to-One or Many-to-Many configurations
- Vivid and sharp image -> flawless and lossless compression
- Fast switching -> Embedded scaler
- Centralized management -> KE Matrix Manager
- Security -> AES encryption over IP network

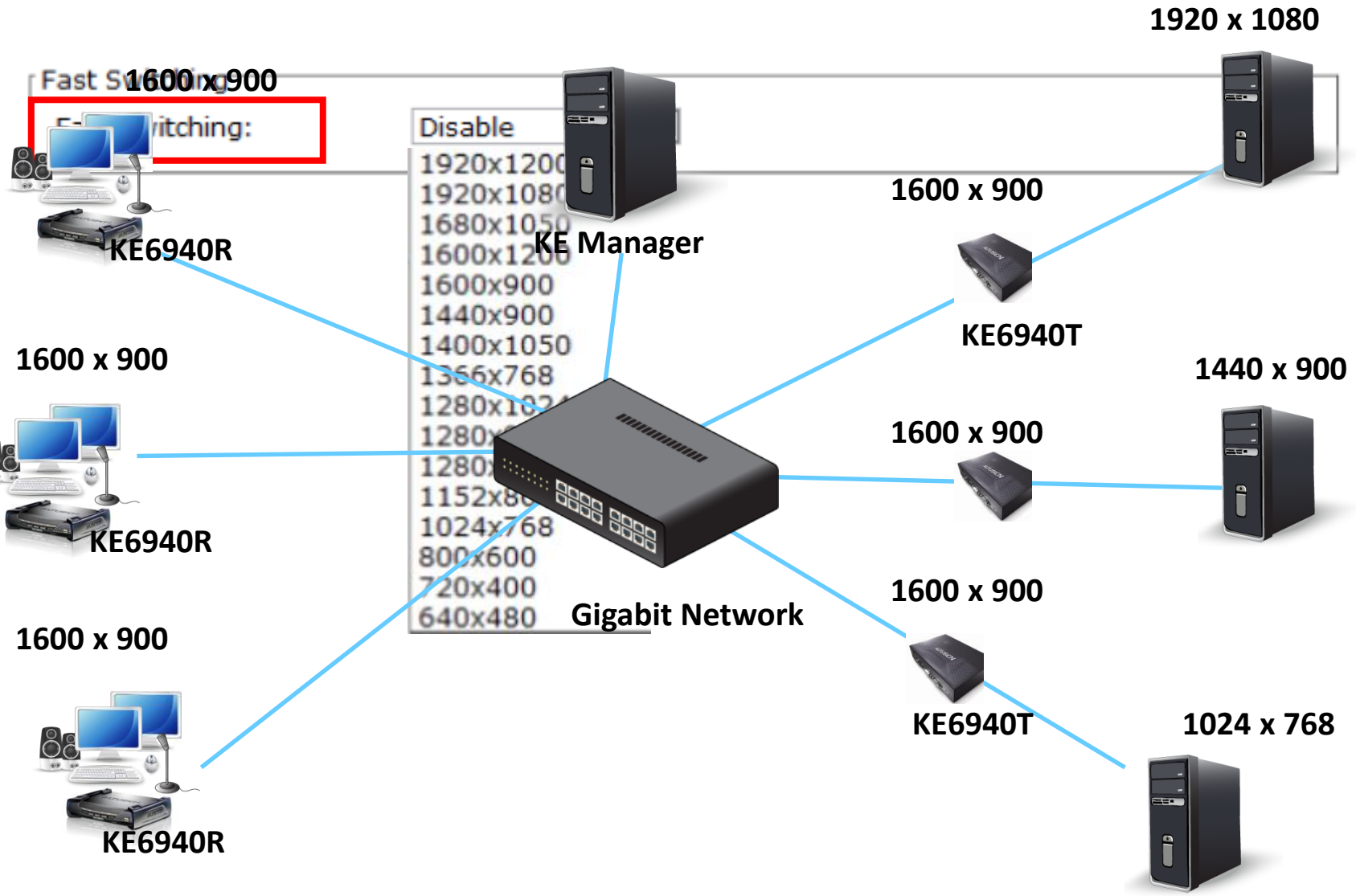
No Distance Limitation



Flexible Configurations



Fast Switching



MORE SOLUTIONS!!!

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CASE 2: SPORTS BAR

VE812R VE812R VE812R

100m, Single Cat5, 4K2K Extension

VE812T VE812T

VE812T

SPORTS BAR CONTROL ROOM

SEAMLESS SWITCHING

VM5808H

RS-232 SCREEN CONTROLLER

SATELLITE TV BOX

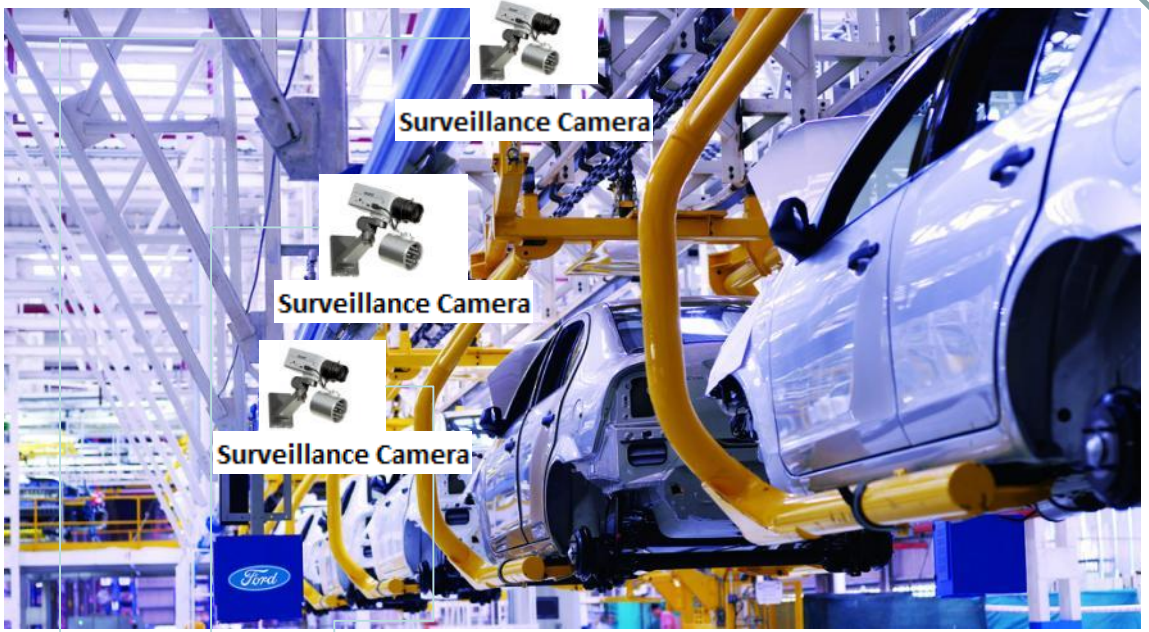
CABLE TV BOX

INTERNET TV BOX

DVD PLAYER

CASE 3: PRODUCTION LINE MONITORING

ASSEMBLY LINE



VE892T

VE892T

VE892T

Optical Fiber: 20 Kms

VE892R

VE892R

VE892R

VM5808H

SEAMLESS SWITCHING

Factory Control Room

CASE 6: TV STATION

SATELLITE

DISPLAY AREA

TV STATION

SOURCE

Location 1

SATELLITE VAN

NEWS CREW

Location 2

SATELLITE VAN

NEWS CREW

SATELLITE VAN

Location 3

NEWS CREW

TV STATION DISH

TV WALL

SAT DOWNLINK

SEAMLESS SWITCHING

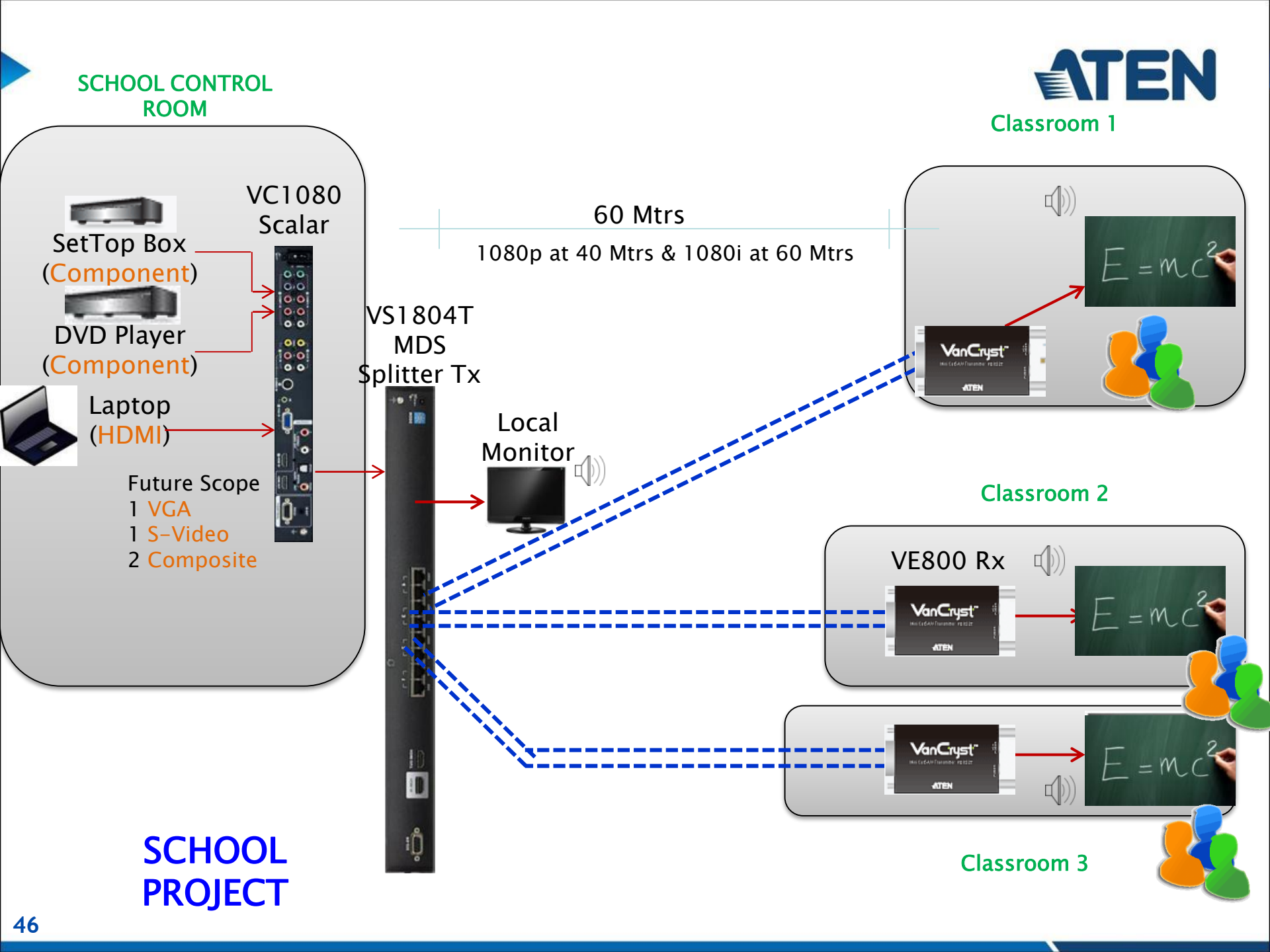
VM5808H

LOAD BALANCER

DEDICATED SERVERS

Uses RS-232 to switch between ports

ADMINISTRATOR


SCHOOL CONTROL ROOM
VC1080 Scalar
SetTop Box (Component)
DVD Player (Component)
Laptop (HDMI)
Future Scope
1 VGA
1 S-Video
2 Composite
VS1804T MDS Splitter Tx
Local Monitor
60 Mtrs
1080p at 40 Mtrs & 1080i at 60 Mtrs
Classroom 1
Classroom 2
VE800 Rx
Classroom 3
SCHOOL PROJECT

Scenario 2: Assuming Full VGA Setup

COURT 1

COURT 2

VE022T

VE022T

VE022R

VE022R

VM0404

VE022T

VE022T

VE022T

VE022T

VE022R

VE022R

VE022R

VE022R

CLASSROOM 1

CLASSROOM 2

Application Specific Marketing Ads.

Success Stories Format

Success Story **Media**

NEWS STREAMING FROM DIFFERENT LOCATIONS TO MEDIA ROOM

"ATEN HDMI MATRIX Solution"

Client: ASIANET TV, INDIA

Overview:

Asianet TV is one of the largest news and entertainment channel in India with a viewership of more than 300 million viewers.

Being a news channel, Asianet has news reporters in different locations in India and their news feeds are centrally fed via SATELLITE to the Centralized Media & Monitoring room for broadcast to viewer homes.

Challenges

- How to CENTRALLY MONITOR news feed from DIFFERENT LOCATIONS in the media room?
- How to "SWITCH" between different screens in the media room from "SINGLE USER WORKSTATION"?
- How to achieve 1080p quality of news feed from different locations?
- How to achieve HIGH SIGNALLING RATES for high load data feed from Satellite News Vans?

Solution

8 x 8 HDMI MATRIX SWITCH

VM0808H x 8 Units

Success Story **Government**

Modern A/V Broadcasting Solution - HDMI Matrix Switch Integrated with Video Wall System

Client: PETROVIETNAM, Vietnam

Petrovietnam, Vietnam Oil and Gas Group, is a state-owned company in Vietnam that manages petroleum/hydrocarbon exploration and production activities.

The company recently built a large conference room in their Ho Chi Minh City branch office for holding annual shareholder meetings. For real-time monitoring and management of the meetings, all video sources for conferencing, presentations, and surveillance are centrally managed in a control room. Using ATEN solutions control room techs can easily broadcast to a 6x4 video wall on the stage, across multiple LCD TVs around the conference room, and view surveillance video.

Challenges

- How to centrally manage video sources from different A/V systems and deliver the select signals to a 6 X 4 video wall and all LCD TVs?
- To split and extend various video signals to the different display devices around the conference room.
- Ensure high quality video performance (1080p) for the video wall and LCD TVs when the signals are extended over a long distance.
- Integrate various video formats and A/V devices provided from different vendors.

Solution

VM0808H x 2

8X8 HDMI Matrix Switches